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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/022,770	12/20/2001	Eisaku Ito	217363US3	6887
22850	7590 03/03/2005		EXAMINER	
OBLON, SI 1940 DUKE	PIVAK, MCCLELLA STREET	VERDIER, CHRISTOPHER M		
	ALEXANDRIA, VA 22314			PAPER NUMBER
			3745	

DATE MAILED: 03/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Supplemental		
Notice of Allowability	10/022,770 Examiner	Art Unit
·		
	Christopher Verdier	3745
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Ric	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included
1. This communication is responsive to the IDS filed 7-8-04.	•	
2. 🔀 The allowed claim(s) is/are <u>2 <i>and</i> 3</u> .		
3. $igotimes$ The drawings filed on <u>12-20-01, 4-28-04</u> are accepted by the	ne Examiner.	
 Acknowledgment is made of a claim for foreign priority und a)		
2. ☐ Certified copies of the priority documents have		
3. ☐ Copies of the certified copies of the priority doc	•	
International Bureau (PCT Rule 17.2(a)).	and the second of the second o	Transfer application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	y complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER s reason(s) why the oath or declar	R'S AMENDMENT or NOTICE OF ration is deficient.
3. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.	
(a) ☐ including changes required by the Notice of Draftsperso		0-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the draw he header according to 37 CFR 1.121	ings in the front (not the back) of (d).
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 	it of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s) I. ☐ Notice of References Cited (PTO-892)	C D Nation of C	D. J. A. 11. 11. 12. 12. 12. 12. 12. 12. 12. 12
2. ☐ Notice of References Cited (FTO-692) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Patent Application (PTO-152)
	 Interview Summary Paper No./Mail Da 	y (P10-413), ate
B. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date <u>7-8-04</u>	Paper No./Mail Da B), 7. ☐ Examiner's Amend	ment/Comment
I. ☐ Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9. 🗌 Other	
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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The Information Disclosure Statement filed July 8, 2004 lists U.S. Patent 5,192,190, U.S. Patent 4,714,407, and Swiss Patent 586,841, which are indicated as "X" references on the corresponding European Search Report for EP 01 13 0467. None of these references anticipate or render obvious pending claims 2-3, for the reasons set forth below.

Claims 2-3 are directed towards an unobvious improvement over the invention patented in U.S. Patent 5,192,190. The improvement comprises the stationary blade having an entrance metal angle at the tip portion of the stationary blade that is the stationary blade at a rear stage of the moving blade having the tip clearance (which is between the tips of the moving blades and a casing), that is smaller than an entrance metal angle at other portions than the tip portion of the stationary blade. The term "entrance metal angle" refers to a specific angle as known in the art, as described in Applicants' specification (see page 15, lines 1-2), and as described in U.S. Patent 5,354,178. The table in columns 3-4 of U.S. Patent 5,192,190 shows that the inlet included angle decreases from the tip to other portions of the stationary blade. However, the inlet included angle is an angle which is entirely different from the claimed "entrance metal angle". U.S. Patent 5,192,190 does not disclose the improvement.

Claim is 2 directed towards an unobvious improvement over the invention patented in U.S. Patent 4,714,407. The improvement comprises the stationary blade having an entrance metal angle at the tip portion of the stationary blade that is the stationary blade at a rear stage of

Art Unit: 3745

the moving blade having the tip clearance (which is between the tips of the moving blades and a casing), that is smaller than an entrance metal angle at other portions than the tip portion of the stationary blade. The term "entrance metal angle" refers to a specific angle as known in the art, as described in Applicants' specification (see page 15, lines 1-2), and as described in U.S. Patent 5,354,178. U.S. Patent 4,714,407 (figures 3 and 10-12) is silent as to the entrance metal angle. From figures 10-12, it appears that an entrance metal angle at the tip would be largest at the tip region, which is opposite to the claimed improvement.

Claims 2-3 are directed towards an unobvious improvement over the invention patented in Swiss Patent 586,841. The improvement comprises the stationary blade having an entrance metal angle at the tip portion of the stationary blade that is the stationary blade at a rear stage of the moving blade having the tip clearance (which is between the tips of the moving blades and a casing), that is smaller than an entrance metal angle at other portions than the tip portion of the stationary blade. The term "entrance metal angle" refers to a specific angle as known in the art, as described in Applicants' specification (see page 15, lines 1-2), and as described in U.S. Patent 5,354,178. The Swiss Patent 586,841 is silent as to the entrance metal angle. From figure 2, it appears that an entrance metal angle at the tip would be largest at the tip region, which is opposite to the claimed improvement.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Art Unit: 3745

Allowance."

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Verdier whose telephone number is (571) 272-4824. The examiner can normally be reached on Monday-Friday from 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward K. Look can be reached on (571) 272-4820. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C.V. March 2, 2005 Christopher Verdier Primary Examiner Art Unit 3745